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Digital Navigation Microscope

1st Worldwide Intra-operative Swept Source OCT

COMING SOON

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OPHTHALMIC EQUIPMENT

Worldwide Representation Platform

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With a smooth integrated intelligent bracket design and electric non-contact fundus observation system, the high-end digital navigation microscope achieves easy switching between anterior and posterior segment surgeries. The world's first intraoperative SS-OCT module, data projection system, all-built-in binocular 4K3D HD camera, bringing unparalleled precise intraoperative OCT navigation and comfortable experience of head-up surgery to the surgeon!

Your Main Benefits

- Intelligent Surgical Microscope
- Excellent Imaging and Color Reproduction
- Digital Eypiece Projection
- Intra-operative Swept Source OCT
- Intraoperative Navigation
- Support 4K+3D HUD
- Anterior and Posterior
- 4D OCT (3D Real-time 3 Dimension)
- Digital System

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Technical Specifications

Floor stand	Four 360° rotating castors (Ø150 mm), parking brake
Materials	Conforming with RoHS Coated with antimicrobial paint
Load	Floor stand max. 8.0 kg from microscope dovetail ring interface
Weight	Floor stand approx. 410 kg without load and without Swept OCT, 420 kg with Swept OCT TW4 telescope mount total approx. 210 kg
MetaOptics	For increased depth of field and high resolution for main surgeon and assistant
ApoChrome optics	For high contrast, high resolution, natural colors without chromatic aberrations
Magnification	6:1 zoom, motorized
Total magnification	4.1. to 24.5. with 10. eyepiece 5.1. to 30.7. with 12.5. eyepiece
Focus range	75 mm
Objective / working distance	WD 175 mm/f = 200 mm WD 200 mm/f = 225 mm WD: Working distance, f: Focal length
Field of view	49–90 mm Ø with 10x eyepiece
Eyepieces	Wide-field eyepieces for persons wearing glasses 8.3., 10. and 12.5. dioptic adjustment, ± 5 diopter settings, adjustable eyecup
Direct illumination with 2 LED lamps	Main light Integrated LED illumination system for intensive uniform illumination of the field of view Continuously adjustable brightness with halogen-like color temperature CoAx 4 coaxial illumination Illumination unit for generating a clear and stable Red Reflex, decreasing stray light through the sclera and increasing the image contrast
Adjustable CoAx 4	Diameter of coaxial illumination is adjustable between 4 and 23 mm via footswitch
Fine focus	Available for assistant and integrated camera or external 1/3 camera with C-mount interface
OpenArchitecture	Prepared for integration of video camera systems, digital recording and imaging systems such as EnFocus OCT and monitors
Connectors	Four built-in video connectors for transfer of video and control data (DIV Out, DIV In, C-video Out, HD-SDI Out) Internal power supply 12 VDC, 19 VDC, 24 VDC and AC terminals
2D or 3D Video	Optional fully integrated 2D or 3D HD video and recording
Power connection	600 VA 50/60 Hz 100–240 V~ 50/60 Hz 2 × T10 AH 250 V
Protection class	Class 1
Axial resolution in tissue	2.4 - 5.6 µm
Lateral resolution	10 µm for 175 mm objective and 10 µm for 200 mm objective
Imaging depth in tissue	3 mm
Lateral field of view (scan range)	up to 20mm x 20mm across entire range of microscope magnification
Image display resolution	1920 x 1080 pixels
Image acquisition speed	> 36000 scans/s, 30Hz B-scan display refresh rate
OCT optical power	LSO 840nm
Imaging center wavelength	1060 nm
175mm objective lens working distance	178 mm
200mm objective lens working distance	203 mm
Fundus viewing system	Compatible with BIOM 5, BIOM Ready and flat contact lens
Workstation Operating System	64-bit, Windows 10
Removable scan head	Yes
OCT scanner dimensions	Scan head: 6 cm (h) x 10 cm (od) Relay arm: 28 cm (h) x 4 cm (od) Scan assembly: 21 cm (h) x 17.5 cm (w) x 39 cm (l)
Scan head weight	2.6 kg (5.7 lbs)



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